

Kaia Parenti

PATENT AGENT

Patents and
Innovations
San Diego

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FOCUS AREAS

Intellectual Property
Life Sciences
Patents and Innovations

EXPERIENCE

Dr. Kaia Parenti is a patent agent in the San Diego office of Wilson Sonsini Goodrich & Rosati, where she is a member of the patents and innovations practice. Her background includes extensive knowledge in organic chemistry, polymer materials, physical chemistry, and nanotechnology. Kaia applies her experience to patent prosecution, freedom-to-operate, and due diligence matters for clients in the life sciences, pharmaceutical, and biotechnology industries.

Prior to joining the firm, Kaia completed her doctoral degree at Columbia University where her dissertation focused on the design, synthesis, and photophysical characterization of organic semiconductors for multiple exciton generation. While at Columbia, Kaia also served as a fellow in the university's technology transfer office, Columbia Technology Ventures.

CREDENTIALS

Education

- Ph.D., Chemistry, Columbia University, 2022
National Defense Science and Engineering Graduate Fellow
- B.S., Biochemistry, University of Michigan, 2017

Admissions

- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author, "Direct Exciton Harvesting from a Bound Triplet Pair," *Advanced Materials* 2203974, 2022
- Co-author, "Quantifying Exciton Transport in Singlet Fission Diblock Copolymers," 144(7) *Journal of the American Chemical Society* 3269-3278, 2022
- Co-author, "Pentacene-Bridge Interactions in an Axially Chiral Binaphthyl Pentacene Dimer," 125(33) *Journal of Physical Chemistry A* 7226-7234, 2021
- Lead author, "Bridge Resonance Effects in Singlet Fission," 124(45) *Journal of Physical Chemistry A* 9392-9399, 2020
- Co-author, "Understanding the Bound Triplet-Pair State in Singlet Fission," 5(8) *Chem* 1988-2005, 2019
- Co-author, "Microphase Segregation and Selective Chain Scission of Poly(2-Methyl-2-Oxazoline)-Block-Polystyrene," 57(2) *Journal of Polymer Science Part A: Polymer Chemistry* 1349-1357, 2019
- Co-author, "Persistent Multiexcitons From Polymers with Pendent Pentacenes," 141(24) *Journal of the American Chemical Society* 9564-9569, 2019
- Co-author, "Hierarchical Patterns with Sub-20 nm Pattern Fidelity via Block Copolymer Self-Assembly and Soft Nanotransfer Printing," 10(23) *Polymer Chemistry* 3194-3200, 2019

- Co-author, “Asymmetric Palladium-Catalyzed Alkene Carboamination Reactions for the Synthesis of Cyclic Sulfamides,” 22(17) *Chemistry – A European Journal* 5919-5922, 2016

TECHNICAL FLUENCY

Therapeutics and Drug Discovery

- Antimicrobial agents
- Drug conjugates
- Drug conjugates based drug discovery
- Drug delivery
- Peptide therapeutics
- Pharmacodynamics
- Pharmacokinetics
- Small molecule synthesis
- Small molecules

Chemistry and Material Science

- Chemical synthesis
- Chemistry
- Materials chemistry
- Organic chemistry
- Organometallics
- Process chemistry